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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,825	12/31/2003	Brian H. Johnston	84784AJA	1830

7590

03/14/2005

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EXAMINER

WALKE, AMANDA C

ART UNIT	PAPER NUMBER
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1752

DATE MAILED: 03/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/749,825

Applicant(s)

JOHNSTON ET AL

Examiner

Amanda C Walke

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 December 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brewer et al (5,891,607) in view of Sakai et al (4,219,615).

Brewer et al disclose a color motion picture print film comprising a silver halide light sensitive photographic print element comprising a support bearing on one side thereof: a blue color sensitive record comprising at least one blue-sensitive silver halide emulsion yellow-image forming layer, a red color sensitive record comprising at least one red-sensitive silver halide emulsion cyan-image forming layer, and a green color sensitive record comprising at least one green-sensitive silver halide emulsion magenta-image forming layer; wherein the overall contrast (OC) of the green record is greater than 1.9, and the mid-scale contrast (MSC) of the green record is about 3.2 or more, wherein the parameters OC and MSC are as defined herein. A further embodiment of the invention comprises a process of forming an image in a motion picture silver halide light sensitive color photographic print element comprising: (a) digitally exposing a photographic light sensitive element according to digital image data using a digital film recording device to form a color negative film record, and printing the negative film record on the silver halide light sensitive photographic print element to form an exposed print element, or (b) directly exposing the silver halide light sensitive photographic print element according to

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digital image data with a digital film recording device; and processing the exposed photographic print element resulting from (a) or (b) to form a developed image; wherein the overall contrast (OC) of the green record of the print element is greater than 1.9. Preferably, the elements of the invention and the elements used in the process of the invention have corresponding red and blue OC values which are at least 90% of the green values, and MSC values within $\pm 10\%$ of the green values, enabling the production of outstanding projected images having black densities and with digital assistance, optimal mid-scale contrasts which together cannot be easily obtained with traditionally designed color print films. The reference further teaches that visual densities as high as 5.0 are possible, while the current color-coupled print films are limited to densities of about 3.8. The imbibition printing process, however, is disadvantageous as it requires the formation of three separation matrix films and complex registration procedures during the transfer of dyes to a receiving blank to form a print film. Photographic light-sensitive print elements of the invention may utilize silver halide emulsion image forming layers wherein chloride, bromide and/or iodide are present alone or as mixtures or combinations of at least two halides. The combinations significantly influence the performance characteristics of the silver halide emulsion. Print elements are typically distinguished from camera negative elements by the use of high chloride (e.g., greater than 50 mole % chloride) silver halide emulsions containing no or only a minor amount of bromide (typically 10 to 40 mole %), which are also typically substantially free of iodide. As explained in Atwell, U.S. Pat. No. 4,269,927, silver halide with a high chloride content possesses a number of highly advantageous characteristics. For example, high chloride silver halides are more soluble than high bromide silver halide, thereby permitting development to be achieved in shorter times. Furthermore, the release of chloride into the developing solution

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has less restraining action on development compared to bromide and iodide and this allows developing solutions to be utilized in a manner that reduces the amount of waste developing solution. Since print films are intended to be exposed by a controlled light source, the imaging speed gain which would be associated with high bromide emulsions and/or iodide incorporation offers little benefit for such print films.

Photographic print elements are also distinguished from camera negative elements in that print elements typically comprise only fine silver halide emulsions comprising grains having an average equivalent circular diameter (ECD) of less than about 1 micron, where the ECD of a grain is the diameter of a circle having the area equal to the projected area of a grain. The ECDs of silver halide emulsion grains are usually less than 0.60 micron in red and green sensitized layers and less than 0.90 micron in blue sensitized layers of a color photographic print element. Such fine grain emulsions used in print elements generally have an aspect ratio of less than 1.3, where the aspect ratio is the ratio of a grain's ECD to its thickness, although higher aspect ratio grains may also be used. Such grains may take any regular shapes, such as cubic, octahedral or cubo-octahedral (i.e., tetradecehedral) grains, or the grains can take other shapes attributable to ripening, twinning, screw dislocations, etc. Typically, print element emulsions grains are bounded primarily by {100} crystal faces, since {100} grain faces are exceptionally stable. In the examples, the materials have an amount of silver meeting the instant claim limitations, and the reference states that the film samples are exposed through a 0-3 density 21-step tablet on a Kodak 1B sensitometer with a 3200 K light source, and processed according to the standard Kodak ECP-2B Color Print Development Process as described in the Kodak H-24 Manual, "Manual for Processing Eastman Motion Picture Films", Eastman Kodak Company, Rochester,

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N.Y., the disclosure of which is incorporated by reference herein, with the exception that those steps specific to sound track development were omitted, which appears to meet the instant method limitations. With respect to the silver to dye-forming couple stoichiometric equivalent molar ratios, it is the position of the examiner that given that that material of the reference appears to be constructed in the same manner and comprise the same additives as that of the instant invention, although the reference is silent with respect to this ratio, that it would inherently possess that ratio thus meeting the instant claim limitations. The reference is silent with respect to the total silver coverage of the material.

Sakai et al disclose a color silver halide photographic material for motion picture sound films. The reference teaches that it is preferable to limit the silver content of the material to 100 mg/m² per emulsion layer (column 6, lines 21-31).

Given the teachings of the references it would have been obvious to one of ordinary skill in the art to prepare the material of Brewer et al choosing to use the silver amounts taught to be beneficial by Sakai et al, with reasonable expectation of achieving a material having an optimal mid-scale contrast.

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sakai et al (6,756,190) is cited for its teaching of a silver halide material having a low amount of silver.

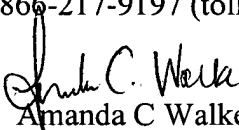
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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda C Walke whose telephone number is 571-272-1337.

The examiner can normally be reached on M-R 5:30-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Amanda C Walke
Examiner
Art Unit 1752

ACW
March 7, 2005